

# Valve Positioners, Top Mount

## SRD991 RCV Intelligent Valve Positioner

### DESCRIPTION

The top-mounted SRD991 digital positioner is integral with the Type 766 actuator, spring opposed diaphragm actuator designed specifically to fit the Research Control Valve body-bonnet assembly. The unique positioner is compatible for both the 1/4 in. and 1/2 in. actuator. The unit functions as an air-to-open actuator retracting the stem and opening the valve on an increasing instrument signal. This solution should be used when the application calls for high positioning accuracy or when greater force is required over the standard actuator such as in the case of high shutoff pressures or excess packing friction. This linear connection creates a quicker and more accurate control element. The SRD991 top-mount positioner is available with a large amount of benefits including a LCD screen, protocols and diagnostics. All the diagnostics features can be easily configured and displayed by the Positioner DTM. Moreover, the Positioner DTM enables a complete health report of the valve with all data of configuration and diagnostics. The simple installation and setup of the SRD991 positioner allows an easy upgrade to any BLRA pneumatic positioner.

### FEATURES

- Easy to operate, menu-driven with graphical LCD
- Multilingual full text display, backlighted for easy reading
- All parameters can be configured locally by push buttons
- Status and diagnostic messages displayed in LCD
- Advanced diagnostics for valve predictive maintenance
- Premium diagnostics for valve signatures, online friction
- Partial stroke test (PST) for emergency shutdown applications
- HART Protocol with only 420 Ohms load
- PROFIBUS-PA acc. to IEC 1158-2 based on FISCO
- FOUNDATION Fieldbus H1 acc. to IEC 1158-2 based on FISCO with PID, AO, 2xDI, DO function blocks and LAS functionality

### OPTIONS

- Limit switches or position transmitter
- Gauge manifolds and volume boosters
- Pressure sensors for supply air and outputs



Upgrade your BLRA to drive intelligence with the SRD diagnostics software, providing preventive maintenance, various protocols and ease-of-use.

### Operation



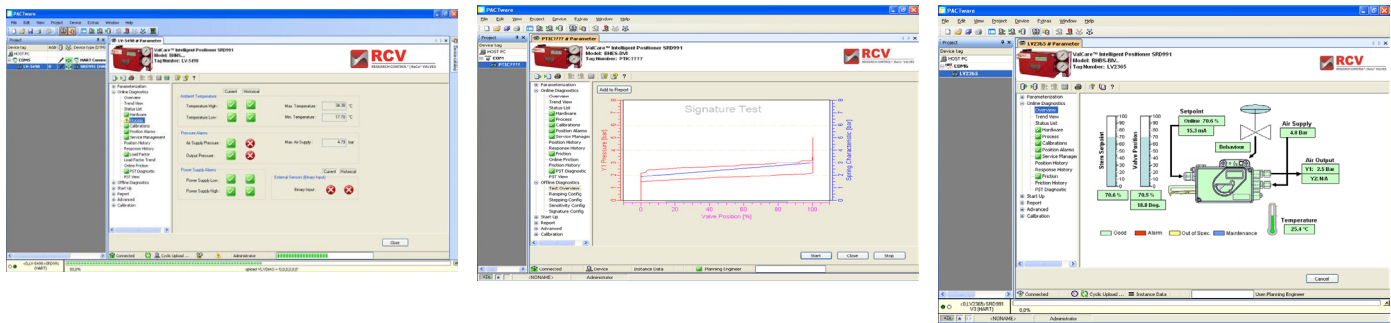
### Configuration



### Diagnosis Report



**Positioner Report**



**SPECIFICATIONS**

<b>Advanced Diagnostics</b>	Autostart		Custom characterization
	Autodiagnostic		Alarm management
	Alarm output for switching (with optionboard)		
	Status List acc. NE107	Position history	
<b>Premium Diagnostics</b>	Response history		
	Online friction	Stepping signature	
	Ramping signature	Sensitivity signature	
	Valve signature	PST	
PST predictive maintenance			
<b>SRD991 without Communication</b>			
		Setpoint: 4...20 mA	
		Load: 300 Ohms	
<b>SRD991 with Communication:</b>	<b>HART</b>	Setpoint: 4...20 mA	
	<b>PROFIBUS PA and FOUNDATION Fieldbus H1</b>	Load: 420 Ohms	
		<ul style="list-style-type: none"> <li>Base current 10.5 mA ± 0.5 mA + FISCO FDE (Fault Disconnection Electronic)</li> <li>Digital</li> <li>Certified DTM's for HART, Profibus PA and FF H1</li> </ul>	
<b>Display</b>		<ul style="list-style-type: none"> <li>Multilingual Graphical LCD with full text display</li> <li>LEDs</li> </ul>	
<b>Air Supply</b>		<ul style="list-style-type: none"> <li>1.4...6 bar (20...90 psig), or</li> <li>1.4...7 bar (20...105 psig) high air capacity version</li> </ul>	
<b>Range</b>		8...260 mm (0.3...10.2 in.) with standard lever	
<b>Protection Class</b>		IP 65 (IP 66 on request), NEMA 4X	
<b>Electrical Classification</b>		<b>FM</b>	General Service
<b>Electrical Connection</b>		"Intrinsic safety" Class I, Div. 1, Groups A, B, C, D (available in the future)	
<b>Pneumatic Connection</b>		M20 x 1.5 or 1/2-14 NPT (others, with Adapter AD)	
<b>Ambient Temperature</b>		G1/4 or 1/4-18 NPT	
<b>Weight</b>		- 40...80° C (- 40...176° F)	
<b>Optional Features</b>		1.7 kg (3.7 lb); Double acting: 2 kg (4.4 lb)	
		<ul style="list-style-type: none"> <li>Inductive limit switches (2- or 3-wire)</li> <li>Mechanical switches (micro switches)</li> <li>Position transmitter (4...20 mA)</li> <li>Binary inputs or binary outputs or</li> <li>Binary inputs/outputs dedicated to SIS logic solvers (like TRICONEX)</li> <li>External potentiometer</li> </ul>	

**Control. Manage. Optimize.**

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